(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT) RECOPCIPIO 01 APR 2005

(19) World Intellectual Property **Organization**

International Bureau

(43) International Publication Date 22 April 2004 (22.04.2004)

PCT

(10) International Publication Number

(51) International Patent Classification7:

A61F 2/06

WO 2004/032795 A3

(21) International Application Number:

PCT/US2003/032162

(22) International Filing Date: 8 October 2003 (08.10.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/417.115

9 October 2002 (09.10.2002)

(71) Applicant (for all designated States except US): FOSSA MEDICAL, INC. [US/US]; 580 Harrison Boulevard, 4th Floor, Boston, MA 02118 (US).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): MANASAS, Mark [US/US]; 25 Trimount Street, Dedham, MA 02026 (US). KOLB, Gloria, Ro [US/US]; 308 Quarry Street, #501, Quincy, MA 02169 (US).
- (74) Agents: KAMHOLZ, Scott, E. et al.; Foley Hoag LLP, Patent Group, 155 Seaport Boulevard, Boston, MA 02210 (US).

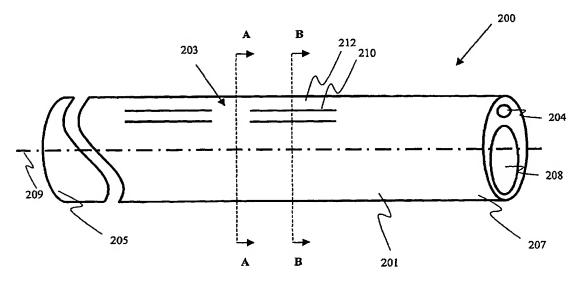
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

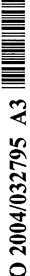
- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 29 December 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ECCENTRIC LUMEN STENTS



(57) Abstract: Embodiments of medical devices (200) are described, such as stents, for dilating passageways. A medical device (200) can include a flexible body (201), having a proximal end (205), a distal end (207), and a longitudinal axis (209). The flexible body (201) can further include a flexible elongate member (212) that is defined by a longitudinally extending aperture (210) in the body (201). The member can be radially expandable with respect to the longitudinal axis (209). The device (200) can also define an eccentric lumen (204), with at least a portion of the eccentric lumen (204) being offset from the longitudinal axis (209).



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/32162

A. CLASSIFICATION OF SUBJECT MATTER			
IPC(7) : A61F 2/06 US CL : 623/1.11-1.22, 1.27, 1.3, 1.34, 1.38, 1.42, 1.49			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
U.S.: 623/1.11-1.22, 1.27, 1.3, 1.34, 1.38, 1.42, 1.49			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
	, · · · · · · · · · · · · · · · · · · ·		т=
			
		04.2002), Abstract, column 5, lines 58-	1
Y	07, column 4, inics 50-04, figures 1-3 and 17-13.		39 and 41
		·	
			20, 24 and 33
v	US 5 464 450 A (Ruscemi et al.) 07 November 199	95 (07.11.2004). Abstract. column 2	20 24 and 33
	lines 1-10.		20, 27 410 33
Α	US 5,569,184 A (Crocker et al.) 29 October 1996 (29.10.1996), figures 1-16.		1-41
Α	US 5,456,251 A (Fiddian-Green) 10 October 1995 (10.10.1995), figures 1-12.		1-41
			ļ
Further documents are listed in the continuation of Box C. See patent family annex.			
of particu	ılar relevance	"X" document of particular relevance; the	claimed invention cannot be
"E" earlier ap	plication or patent published on or after the international filing date		red to involve an inventive step
			claimed invention councy he
		considered to involve an inventive ste	p when the document is
"O" document	t referring to an oral disclosure, use, exhibition or other means		
		"&" document member of the same patent	family
priority date claimed			
1 ' \			
07 October 2	2004 (07.10.2004)		7 2004
1/1/2			
C	Commissioner of Patents	Larry Schwarz	
		Telaphone No. 703-306-0858	
Facsimile No. (703) 305-3230			
C. DOCUMENTS CONSIDERED TO BE RELEVANT Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X US 6,371,979 B1 (Beyar et al.) 16 April 2002 (16.04.2002), Abstract, column 5, lines 58- 67, column 4, lines 30-64; figures 1-9 and 17-19. Y US 5,464,450 A (Buscemi et al.) 07 November 1995 (07.11.2004), Abstract, column 2, lines 1-10. A US 5,569,184 A (Crocker et al.) 29 October 1996 (29.10.1996), figures 1-16. A US 5,456,251 A (Fiddian-Green) 10 October 1995 (10.10.1995), figures 1-12. * Special categories of cited documents: *A* document effining the general state of the air which is not considered to be of particular relevance for abstract which may throw doubts on priority claim(s) or which list cited to expecifically discontained in the continuation of the international filling date to priority date claimed **Comment spublication or patent published on or after the international filling date to priority date claimed of another clusten or other special reason (as specifical) **Ocument or patent published or or after the international filling date to priority date columns or patent published or or after the international filling date to priority date calmed investigation or other special reason (as specifical) **Ocument referring to an oral disclosure, use, exhibition or other special reason (as specifical) **Ocument published prior to the international search **Ocument referring to an oral disclosure, use, exhibition or other means of the comment is the calmed investigation of the international search report **Ocument published prior to the international search **Ocument member of the same putent family **Comment published with the surplication of the international search report **Ocument published prior to the international search **Ocument member of the same putent family **Comment published the art the line of the international search report **Ocument published prior to the international search **Ocument published to a promish li			

Form PCT/ISA/210 (second sheet) (July 1998)